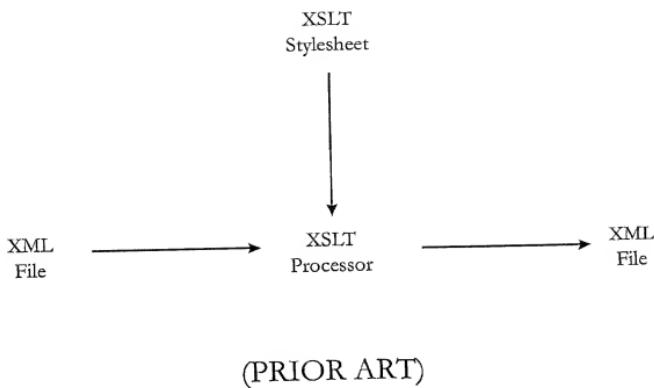
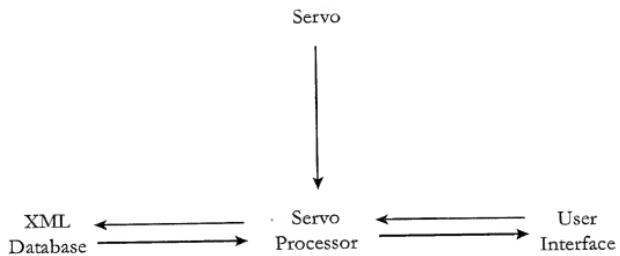


**Figure 1**



**Figure 2**



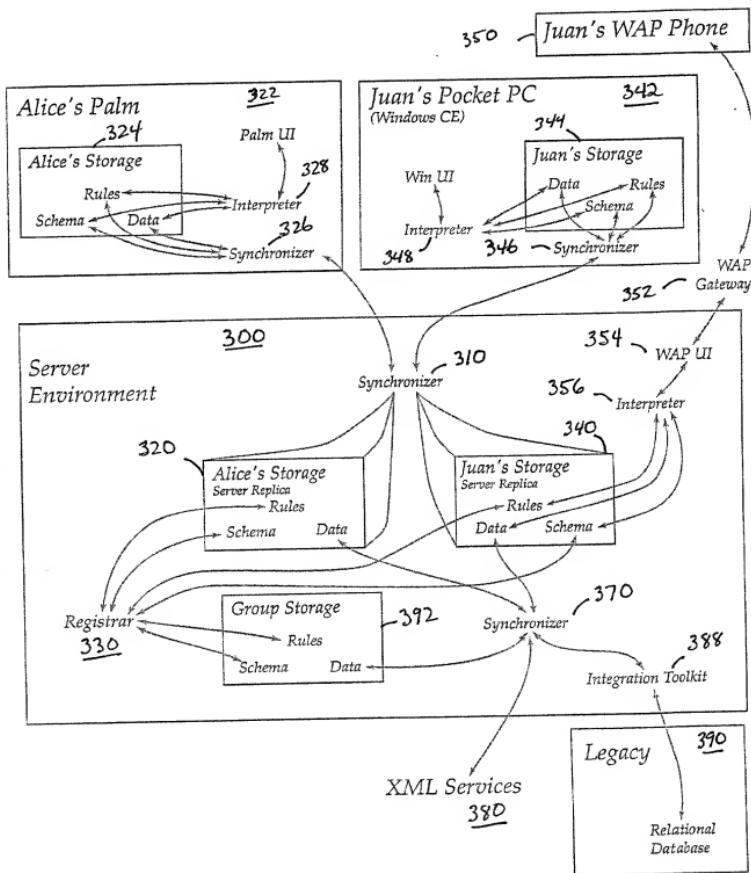


Fig. 3

### Servo Template

```
400  <xsl:template match='wh:obj'>
401    <html:div>
402      <html:span> <xsl:value-of select='@barId' /> </html:span>
403      <xsl:edit select='wh:desc' />
404      <xsl:expandable>
405        <xsl:hideable>
406          <xsl:apply-templates select='key("objByLast", @wh:barId)' />
407        </xsl:hideable>
408      </xsl:expandable>
409    </html:div>
410  </xsl:template>
```

Fig. 4A

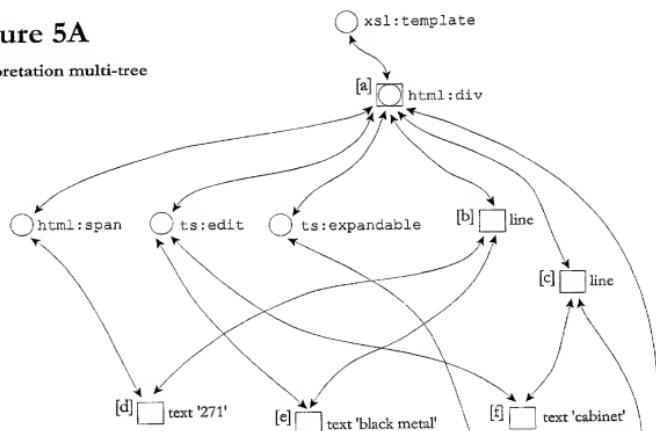
### Database Fragment

```
420  <wh:objects>
421    <wh:obj wh:barId='271'>
422      <wh:desc>black metal cabinet</wh:desc>
423    </wh:obj>
424    <wh:obj wh:barId='259' wh:last='271'>
425      <wh:desc>top shelf</wh:desc>
426    </wh:obj>
427  </wh:objects>
```

Fig. 4B

**Figure 5A**

Interpretation multi-tree

**Figure 5B**

Geometric Layout

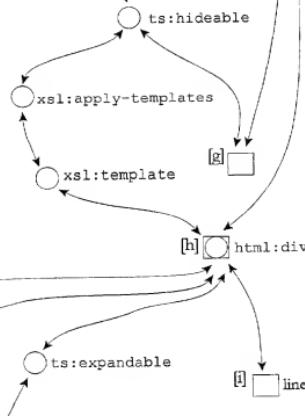
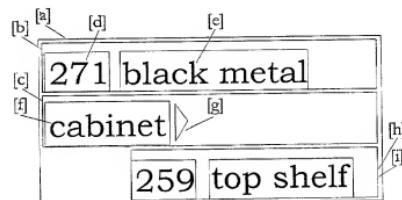


Figure 6

### Context Node

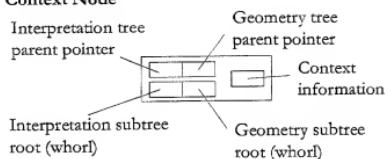


Figure 7

### Interior Socket

Sum of number of context node children, transitive over interior whorls, but not beyond the first level of context nodes

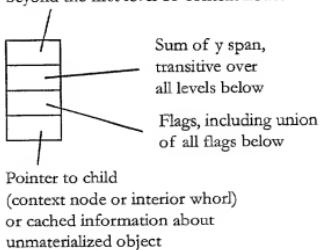
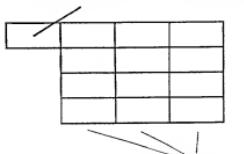


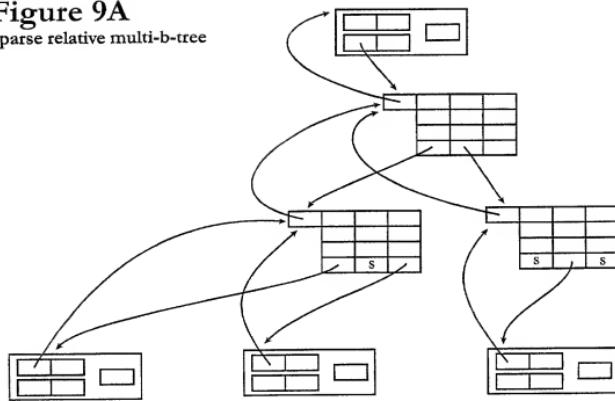
Figure 8

### Interior Whorl

Parent pointer to parent  
interior whorl or parent context node  
containing the whorl referencing this



**Figure 9A**  
Sparse relative multi-b-tree



**Figure 9B**  
Detail of context tree

